PATENT COOPERATION TREATY

APR - 8 2005

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: KIRK D. HOUSER ECKERT SEANANS CHERIN & MELLOTT, LLC 600 GRANT STREET, 44TH FLOOR PITTSBURGH, PA 15219

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

07 APR 2005

Applicant's or agent's file reference

283359003651

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

IMPORTANT NOTIFICATION

PCT/US03/41207

19 December 2003 (19.12.2003)

20 December 2002 (20.12.2002)

Applicant

UNION SWITCH & SIGNAL, INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Gary Chin

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Form PCT/IPEA/416 (July 1992)

Mat'l fleathine: 20-05



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 283359003651	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)						
PCT/US03/41207	19 December 2003 (19.12.2003)	20 December 2002 (20.12.2002)						
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC							
IPC(7): G06F 17/00 and US C1.: 701/19, 117; 705/8; 246/2R, 167R								
Applicant								
UNION SWITCH & SIGNAL, INC.								
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.								
3. This report contains indicate	tions relating to the following it	cons.						
I Basis of the repo	ort							
II Priority								
III Non-establishme	ent of report with regard to nove	elty, inventive step and industrial applicability						
IV Lack of unity of	invention	•						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents cited								
VII Certain defects in the international application								
VIII Certain detects in the international application								
Date of submission of the demand	Date	of completion of this report						
25 June 2004 (25.06.2004)		24 March 2005 (24.03.2005)						
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Gary	Chin January Chin January Chin January Chin Library Chin Chone No. (703) 308-1113						
Facsimile No. (703) 305-3230 // Form PCT/IPEA/409 (cover sheet)(July 1998)								



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/41207

I.	Basis	s of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
		pages 1-47 as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
	\square	the claims:
		pages 48-70, as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE, filed with the demand pages NONE, filed with the letter of
		the drawings: pages 1-9, as originally filed
		nages NONE filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
		pages NONE, as originally filed pages NONE, filed with the demand
		pages NONE, filed with the letter of
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the
	langu	uage in which the international application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is:
	nes	
	H	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	H	the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With interr	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
thi	s reno	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/41207

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
I. STATEMENT						
Novelty (N)	Claims 1-94	YES				
Novelly (N)	•	NO				
Inventive Step (IS)	Claims 1-94					
	Claims NONE	NO				
	Claims 1-94	_YES				
Industrial Applicability (IA)	Claims 1-94 Claims NONE	NO				
	Classis NONE					
method and apparatus as well as the traffic manageme conditions in a region and generating a first plurality (2) determining a second planning boundary by updat generating a second plurality of traffic plans, (3) select plan and (4) outputting the second optimized traffic pi	of traffic plans and then selecting one of the plans the first planning boundary based on the cutting one of the first and second plurality of tra	ans as a first optimized traffic plan, irrent traffic conditions and ffic plans as a second optimized				



International application No.

PCT/US03/41207

VIII.	Certain	observations	on t	the international	application
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The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 87 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 87 is indefinite for the following reason(s): On line 2, "said apparatus" lacks proper antecedent basis and should be changed to "said system" in order to rectify the problem.

Form PCT/IPEA/409 (Box VIII) (July 1998)